

## Asst. Prof. Abit BALIN

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-4590-2935

Publons / Web Of Science ResearcherID: AAB-7600-2019

ScopusID: 55869219500

Yoksis Researcher ID: 180521

### Education Information

Doctorate, Yildiz Technical University, Makina, Endüstri Mühendisliği, Turkey 2010 - 2014

Undergraduate, Yildiz Technical University, Makina, Endüstri Mühendisliği, Turkey 2004 - 2008

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Occupational Health and Safety, İş Güvenliği Uzmanlığı, Çalışma ve Sosyal Güvenlik Bakanlığı, 2014

### Dissertations

Doctorate, Türkiye enerji planlaması için çok ölçütlü bir model önerisi A multiple-criteria model suggestion for Turkey energy planning, Yildiz Technical University, Endüstri Mühendisliği, Endüstri Mühendisliği, 2014

Postgraduate, Genetik algoritma ile hat dengeleme / Line balancing with genetical algorithms, Yildiz Technical University, Endüstri Mühendisliği, 2010

### Research Areas

Industrial Engineering , Optimization Theory and Methods, Linear Programming, Multi Criteria Decision Making, Supply Chain and Logistics Management

### Academic Titles / Tasks

Associate Professor, Istanbul University, School of Transportation and Logistics, Department of Transportation and Logistics, 2021 - Continues

Assistant Professor, Istanbul University, School of Transportation and Logistics, Department of Transportation and Logistics, 2018 - 2021

Assistant Professor, Istanbul University, School of Transportation and Logistics, Department of Transportation and Logistics, 2016 - 2018

Research Assistant PhD, Yalova University, Faculty Of Engineering, Endüstri Mühendisliği, 2014 - 2016

Research Assistant, Yildiz Technical University, Makina, Endüstri Mühendisliği, 2011 - 2014

## Courses

Proje Yönetimi, Postgraduate, 2017 - 2018

Tedarik Zinciri Yönetimi, Postgraduate, 2017 - 2018

Rotalama ve Çizelgeleme Optimizasyonu, Postgraduate, 2016 - 2017

Yöneylem Araştırması, Postgraduate, 2016 - 2017

Tedarik Zinciri Yönetimi, Undergraduate, 2017 - 2018

Proje Yönetimi, Undergraduate, 2016 - 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An integrated interval type-2 fuzzy BWM-MARCOS model for location selection of e-scooter sharing stations: The case of a university campus**  
ALTAY B. C., ÇELİK E., OKUMUŞ A., BALIN A., GÜL M.  
Engineering Applications of Artificial Intelligence, vol.122, 2023 (SCI-Expanded)
- II. **Bibliometric Review of Route Optimization in Maritime Transportation: Environmental Sustainability and Operational Efficiency**  
Mollaoglu M., Altay B. C., BALIN A.  
TRANSPORTATION RESEARCH RECORD, no.6, pp.879-890, 2023 (SCI-Expanded)
- III. **Evaluation of various fuel alternatives in terms of sustainability for the ship investment decision using single valued neutrosophic numbers with TOPSIS methods**  
Mollaoglu M., BUCAK U., Demirel H., Balin A.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M-JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, vol.237, no.1, pp.215-226, 2023 (SCI-Expanded)
- IV. **A Study Using the Hybrid Fuzzy AHP & TOPSIS Method in the Conversion of a LEED-Certified Education Building into a Nearly Zero-Energy Building in a Cold Climate**  
Celik A., Şahin B., MANAY E., BALIN A.  
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, no.5-6, pp.208-223, 2023 (SCI-Expanded)
- V. **A real case study on the selection of suitable roll stabilizer type for motor yachts using hybrid fuzzy AHP and VIKOR methodology**  
Demirel H., ŞENER B., YILDIZ B., BALIN A.  
Ocean Engineering, vol.217, 2020 (SCI-Expanded)
- VI. **A New TOPSIS Methodology Based on Single-Valued Neutrosophic Numbers for Selection of Suitable Roll Stabilizer Type for Motor Yachts**  
ŞENER B., Balin A., YILDIZ B., DEMİREL H.  
JOURNAL OF SHIP PRODUCTION AND DESIGN, vol.36, no.4, pp.250-258, 2020 (SCI-Expanded)
- VII. **A novel fuzzy multi-criteria decision-making methodology based upon the spherical fuzzy sets with a real case study**  
BALIN A.  
IRANIAN JOURNAL OF FUZZY SYSTEMS, vol.17, no.4, pp.167-177, 2020 (SCI-Expanded)
- VIII. **Application of fuzzy VIKOR method for the evaluation and selection of a suitable tugboat**  
Balin A., ŞENER B., DEMİREL H.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M-JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, 2019 (SCI-Expanded)

- IX. **AN INTEGRATED FUZZY MCDM MODEL FOR EVALUATION AND SELECTION OF A SUITABLE TUGBOAT**  
Balın A., Sener B., Demirel H.  
INTERNATIONAL JOURNAL OF MARITIME ENGINEERING, vol.161, 2019 (SCI-Expanded)
- X. **APPLYING A FUZZY-AHP FOR THE SELECTION OF A SUITABLE TUGBOAT BASED ON PROPULSION SYSTEM TYPE**  
Cakiroglu G., ŞENER B., Balın A.  
BRODOGRADNJA, vol.69, no.4, pp.1-13, 2018 (SCI-Expanded)
- XI. **A FUZZY AHP AND ELECTRE METHOD FOR SELECTING STABILIZING DEVICE IN SHIP INDUSTRY**  
DEMİREL H., Balın A., ÇELİK E., ALARÇİN F.  
BRODOGRADNJA, vol.69, no.3, pp.61-77, 2018 (SCI-Expanded)
- XII. **A fuzzy dematel model proposal for the cause and effect of the fault occurring in the auxiliary systems of the ships' main engine**  
BALIN A., Demirel H., CELIK E., ALARÇİN F.  
Transactions of the Royal Institution of Naval Architects Part A: International Journal of Maritime Engineering, vol.160, pp.141-153, 2018 (SCI-Expanded)
- XIII. **A FUZZY MULTI-CRITERIA DECISION MAKING METHODOLOGY BASED UPON THE INTERVAL TYPE-2 FUZZY SETS FOR EVALUATING RENEWABLE ENERGY ALTERNATIVES IN TURKEY**  
Balın A., BARAÇLI H.  
TECHNOLOGICAL AND ECONOMIC DEVELOPMENT OF ECONOMY, vol.23, no.5, pp.742-763, 2017 (SSCI)
- XIV. **AN EVALUATION APPROACH FOR ELIMINATING THE FAILURE EFFECT IN GAS TURBINE USING FUZZY MULTIPLE CRITERIA**  
Balın A., DEMİREL H. H., ALARÇİN F.  
INTERNATIONAL JOURNAL OF MARITIME ENGINEERING, vol.158, 2016 (SCI-Expanded)
- XV. **A novel hybrid MCDM model based on fuzzy AHP and fuzzy TOPSIS for the most affected gas turbine component selection by the failures**  
Balın A., Demirel H., ALARÇİN F.  
JOURNAL OF MARINE ENGINEERING AND TECHNOLOGY, vol.15, no.2, pp.69-78, 2016 (SCI-Expanded)
- XVI. **APPLICATION OF FUZZY ANALYTIC HIERARCHY PROSES FOR ERROR DETECTION OF AUXILARY SYSTEMS OF SHIP MAIN DIESEL ENGINES**  
DEMİREL H. H., ÜNLÜGENÇOĞLU K., ALARÇİN F., Balın A.  
INTERNATIONAL JOURNAL OF MARITIME ENGINEERING, vol.157, pp.105-111, 2015 (SCI-Expanded)
- XVII. **A HIERARCHICAL STRUCTURE FOR SHIP DIESEL ENGINE TROUBLE-SHOOTING PROBLEM USING FUZZY AHP AND FUZZY VIKOR HYBRID METHODS**  
Balın A., Demirel H., ALARÇİN F.  
BRODOGRADNJA, vol.66, no.1, pp.54-65, 2015 (SCI-Expanded)
- XVIII. **Modeling Potential Future Energy Demand for Turkey in 2034 by Using an Integrated Fuzzy Methodology**  
Balın A., BARAÇLI H.  
JOURNAL OF TESTING AND EVALUATION, vol.42, no.6, pp.1466-1478, 2014 (SCI-Expanded)
- XIX. **Fuzzy AHP and Fuzzy TOPSIS integrated hybrid method for auxiliary systems of ship main engines**  
ALARÇİN F., Balın A., Demirel H.  
JOURNAL OF MARINE ENGINEERING AND TECHNOLOGY, vol.13, no.1, pp.3-11, 2014 (SCI-Expanded)
- XX. **Fuzzy multicriteria selection among cogeneration systems: A real case application**  
Alcan P., Balın A., BAŞLIGİL H.  
ENERGY AND BUILDINGS, vol.67, pp.624-634, 2013 (SCI-Expanded)

## Articles Published in Other Journals

- I. **An Overview of Air Traffic and Effective Air Traffic Control Strategies for Istanbul Airport**  
Demirhan İ., Balın A., Okumuş A.  
Journal of Transportation and Logistics, vol.6, no.1, pp.107-124, 2021 (Peer-Reviewed Journal)
- II. **Analysis of Strategies to Reduce Air Pollution from Vessels: A Case for the Strait of Istanbul**  
BUCAK U., Arslan T., DEMİREL H., Balın A.  
JOURNAL OF ETA MARITIME SCIENCE, vol.9, no.1, pp.22-30, 2021 (ESCI)
- III. **A Multi-Criteria Decision-Making Method Based upon Type-2 IntervalFuzzy Sets for Auxiliary Systems of a Ship's Main Diesel Engine**  
Balın A.  
International Journal of Intelligent Systems and Applications in Engineering, vol.5, no.2, pp.44-51, 2017 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **A Multi-Criteria Decision-Making Methodology Suggestion for Turkey Energy Planning Based Type-2 Fuzzy Sets**  
Balın A., Baraçlı H.  
in: Decision Making, Fausto Pedro García Márquez,Alberto Pliego Marugán,Mayorkinos Papaelias, Editor, Books on Demand , London, pp.5-16, 2018
- II. **PERFORMANCE COMPARISON OF CCHP SYSTEMS USING DIFFERENT FUZZY MULTI CRITERIADECISION MAKING MODELSFOR ENERGY SOURCES**  
Balın A., Alcan P., Başlıgil H.  
in: Fuelling the Future Advances in Science and Technologies for Energy Generation Transmission and Storage, A. Mendez-Vilas, Editor, Brown Walker Press, Florida, pp.591-596, 2012

## Refereed Congress / Symposium Publications in Proceedings

- I. **Short-term electricity demand forecasting by using a MATLAB-based ANFIS model**  
Balın A., SERT M., BESİRLİ İ.  
International Conference on Advances in Energy and Environment Research, ICAEER 2016, Guangzhou, China, 12 - 14 August 2016, pp.23-26
- II. **Energy alternatives evaluation in Turkey by using multicriteria decision making methodologies**  
Alcan P., Odabasi D., Balın A.  
Uncertainty Modelling in Knowledge Engineering and Decision Making - 12th International Fuzzy Logic and Intelligent Technologies in Nuclear Science Conference, FLINS 2016, Roubaix, France, 24 - 26 August 2016, pp.627-631
- III. **THE APPLICATIONS OF ENERGY ALTERNATIVES IN TURKEY USING MULTICRITERIA DECISION MAKING PROCESSES**  
Balın A., Alcan P., BAŞLIGİL H.  
10th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), İstanbul, Turkey, 26 - 29 August 2012, vol.7, pp.124-130

## Metrics

Publication: 28

Citation (WoS): 84

Citation (Scopus): 125

H-Index (WoS): 5

H-Index (Scopus): 6

## **Non Academic Experience**

TÜBİTAK

TÜBİTAK

Şitoğlu Pazarlama

Business Establishment Private, Sitoglu

Şitoğlu Gıda